Form PTO-1449 (REV. 8-83)	PATEN	EPARTMENT OF COMMI IT AND TRADEMARK OF	FFICE	ATTY. DOCKET NO 23438.00045).			PLICA 773,10	ATION NO).
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/SK/		1,331,997	02-24-1920		+					
		1,454,967	05-15-1923						-	
	-	1,434,507	12-09-1924		-					
		1,522,765	01-13-1925	1,	<u> </u>	ļ				
		1,526,851	02-17-1925			1				
		1,669,668	05-15-1928							
/SK/		1,673,594	06-12-1928	Schmidt	$\top \bot$					
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/SK/		0665378A1	02-08-95	EP	1			\Box		es tract
		1,185,314	03-25-1970	UK	1					Гасі
		1,800,446	12-11-1969	DE	1			1		es
		GB 2,217,784 A	03-20-1989	UK	11				Ans	tract
/SK/		392,268	09-1965	Switzerland	+-					es
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/SK/		1,717,969	06-18-1929	<u> </u>				
		1,896,201	02-07-1933					
		2,038,221	04-21-1936					
		209,219	10-22-1878					
		2,280,979	04-28-1942	<u> </u>				
		2,290,961	07-28-1942					
		2,488,447	11-15-1949					
/SK/		251,104	12-20-1881	Finch				
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		DOCUMENT				SUB-	TRANS	LATION
	REF	NUMBER	DATE	COUNTRY	CLASS	CLASS	YES	NO
/SK/		416,401	06-1974	Soviet Union				es tract
		58-048796	03-1983	Japan			_	es stract
		63-104773	5-1998	Japan			_	es tract
		683,469	03-31-1964	Canada			_	· ·
/SK/		773,312	10-1980	Soviet Union			B.	es stract
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/SK/		2,515,478	07-18-1950	Tooley et al.						
		2,528,210	10-31-1950	Stewart	<u> </u>					
		2,566,892	09-04-1951	Jacobs	1					
		2,677,609	05-04-1954	Moore et al.						
, ,		2,698,583	01-04-1955	House et al.						
		2,787,873	04-09-1957	Hadley	<u> </u>					
		2,808,782	10-08-1957	Thompson et al.						
/SK/		2,821,472	01-28-1958	Peterson et al.						
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		DOCUMENT				•	SU	JB-	TRANS	LATION
	REF	NUMBER	DATE	COUNTRY	CLA	ASS		ASS	YES	NO
/SK/	, T	90,756	01-1958	Norway		•				es tract
/Sk	v .	942,648	11-27-1963	U.K.						*
/SK	U	WO 98/25031	06-11-1998	WO)	
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/5	SK/	_	2,832,292	04-29-1958	Edwards		1					
			2,865,618	12-23-1958	Abell	<u> </u>	\dagger					
			2,901,677	08-25-1959	Chessman et al.	1	T					
			2,948,524	08-09-1960	Sweeney et al.		\top					
			2,978,885	04-11-1961	Davison							
<u> </u>			2,984,524	05-16-1961	Franzen							
			2,987,885	06-13-1961	Hodge							
/:	sk/		3,010,402	11-28-1961	King							
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/SK/	-	3,048,384	08-07-1962	Sweeney et al.	1			
		3,070,393	12-25-1962	Silverberg et al.	1-1	1-1-		··
		3,092,030	06-04-1963	Wunder		1.1		
		3,227,547	01-04-1966	Szekely	1-1-			
		3,244,109	04-05-1966	Barske				<u> </u>
		3,251,676	05-17-1966	Johnson	1			
		3,255,702	06-14-1966	Gehrm		11		
/SK/	,	3,272,619	09-13-1966	Sweeney et al.				
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^{*}EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-14 (REV. 8-83)			PARTMENT OF COMME AND TRADEMARK OFF		ATTY. DOCKET NO 23438.00045),	<u> </u>		LICA 73,10	TION NO).
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/SK/			3,289,473	12-06-1966	Louda				[_
	$f \vdash$		3,291,473	12-13-1966	Sweeney et al.	<u> </u>	 				
			3,400,923	09-10-1968	Howie et al.						
			3,417,929	12-24-1968	Secrest et al.						
			3,459,133	08-05-1969	Scheffler						
			3,459,346	08-05-1969	Tinnes						
			3,487,805	01-06-1970	Satterthwaite		\				
/S	K/		3,512,762	05-19-1970	Umbricht						
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/SH	(/		3,512,788	05-19-1970	Kilbane						
			3,575,525	04-20-1971	Fox et al.						
			3,618,917	11-09-1971	Fredrikson						
			364,804	06-14-1887	Cole		+				
			3,650,730	03-21-1972	Derham et al.	1					
			3,689,048	09-05-1972	Foulard, et al.			1			
	\Box		3,715,112	02-06-1973	Carbonnel					*	
	/SK/		3,743,500	07-03-1973	Foulard et al.			_			
			FO	REIGN PAT	ENT DOCUMENTS		•				
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/SK/			3,743,263	07-03-1973	Szekely		1.			1	1
			3,753,690	08-21-1973	Emley et al.						
			3,759,635	09-18-1973	Carter et al.						
			3,767,382	10-23-1973	Bruno et al.						
			3,776,660	12-04-1973	Anderson et al.						
			3,785,632	01-15-1974	Kraemer, et al.						
		,	3,814,400	06-04-1974	Seki						
/SK/ 3,824,042 07-16-19					Barnes et al.		1				
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/SK/		3,836,280	09-17-1974	Koch					
		3,839,019	10-01-1974	Bruno et al.					
		3,871,872	03-18-1975	Downing et al.					
		3,873,305	03-25-1975	Claxton et al.					
		3,886,992	06-03-1975	Maas et al.					
		3,915,694	10-28-1975	Ando					
		3,954,134	05-04-1976	Maas et al.					
/SK/		3,961,778	06-08-1976	Carbonnel et al.					
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	-		3,972,709	08-03-1976	Chin et al.					-	
	++		3,984,234	10-05-1976	Claxton et al.	+					
			3,985,000	10-12-1976	Hartz		-				
			3,997,336	12-14-1976	van Linden et al.						
			4,003,560	01-18-1977	Carbonnel						
			4,018,598	04-19-1977	Markus						
/Sk	v		4,052,199	10-04-1977	Mangalick						
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/SK/	-	4,055,390	10-25-1977	Young						
		4,068,965	01-17-1978	Lichti						
		4,091,970	05-30-1978	Kimiyama et al.						
		4,119,141	10-10-1978	Thut et al.						
	-	4,126,360	11-21-1978	Miller et al.						
		4,128,415	12-05-1978	van Linden et al.						
		4,144,562	03-13-1979	Cooper						
/SK/		4,169,584	10-02-1979	Mangalick						
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/sk	<i>T</i>		4,192,011	03-04-1980	Cooper et al.		T				
			4,213,091	07-15-1980	Cooper						
,	\prod		4,213,176	07-15-1980	Cooper						
	H		4,219,882	08-26-1980	Cooper et al.						
	H		4,244,423	01-13-1981	Thut et al.					-	
	$ \cdot $		4,286,985	09-01-1981	van Linden et al.						
			4,322,245	03-30-1982	Claxton						
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*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		4,351,514	09-28-1982	<u> </u>		T		1	7	
/SK/		4,360,314	11-23-1982	Pennell	+	-				
		4,370,096	01-25-1983	Church				-		
	 	4,372,541	02-08-1983	Bocourt et al.						
	·	4,375,937	03-08-1983	Cooper	+		<u> </u>			
		4,392,888	07-12-1983	Eckert et al.						
	·	4,410,299	10-18-1983	Shimoyama	†					
/SK/		4,456,424	06-26-1984	Araoka						
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7SK/		4,456,974	06-26-1984	Cooper				
		4,470,846	09-11-1984	Dube				
*		4,489,475	12-25-1984	Struttmann				
		4,504,392	03-12-1985	Groteke				
		4,537,624	08-27-1985	Tenhover et al.				
		4,537,625	08-27-1985	Tenhover et al.				· · · · ·
		4,556,419	12-03-1985	Otsuka et al.				
/SK/		4,557,766	12-10-1985	Tenhover et al.				
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/SK/			4,586,845	05-06-1986	Morris		1				
			4,593,597	06-10-1986	Albrecht et al.						
			4,598,899	07-08-1986	Cooper						
			4,600,222	07-15-1986	Appling						
		-	4,609,442	09-02-1986	Tenhover et al.						
			4,611,790	09-16-1986	Otsuka et al.						
			4,634,105	01-06-1987	Withers et al.						
	/SK/		4,640,666	02-03-1987	Sodergard						
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/SK/		4,651,806	03-24-1987		+					
1		4,696,703	09-29-1987	Henderson et al.	+ +	_				
		4,701,226	10-20-1987	Henderson et al.	+ +	\dashv				
		4,714,371	12-22-1987	Cuse		1				
		4,717,540	01-05-1988	McRae et al.		7		<u> </u>		
•		4,743,428	05-10-1988	McRae et al.	1 1	7		1		
		4,747,583	05-31-1988	Gordon et al.					<u> </u>	
/S	 	4,770,701	09-13-1988	Henderson et al.		_				
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/SK/		4,786,230	11-22-1988	Thut						
		4,802,656	02-07-1989	Hudault et al.						•
		4,804,168	02-14-1989	Otsuka et al.						
		4,810,314	03-07-1989	Henderson et al.						
	<u> </u>	4,834,573	05-30-1989	Asano et al.						
	1	4,842,227	06-27-1989	Harrington et al.						
		4,844,425	07-04-1989	Piras et al.						
/SK/		4,851,296	07-25-1989	Tenhover et al.						
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/SK/			4,859,413	08-22-1989	Harris et al.			-	
			4,867,638	09-19-1989	Handtmann et al.				
			4,884,786	12-05-1989	Gillespie				
			4,898,367	02-06-1990	Cooper				
			4,923,770	05-08-1990	Grasselli et al.				
			4,930,986	06-05-1990	Cooper				
			4,931,091	06-05-1990	Waite et al.				
/Sh	()		4,940,214	07-10-1990	Gillespie				
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/SK/		4,940,384	07-10-1990	Amra et al.	1					
		4,954,167	09-04-1990	Cooper	11					
		4,973,433	11-27-1990	Gilbert et al.	11					
		4,989,736	02-05-1991	Andersson et al.	1					
		5,006,232	04-09-1991	Lidgitt et al.	11					
		5,028,211	07-02-1991	Mordue et al.	1					
		5,049,841	09-17-1991	Cooper et al.	1					
/SK/		506,572	10-10-1893	Wagener	1 1					
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/SK/			5,078,572	01-07-1992	Amra et al.		<u></u>			
			5,088,893	12-18-1992	Gilbert et al.					
			5,092,821	03-03-1992	Gilbert et al.					
			5,098,134	03-24-1992	Monckton					
			5,099,554	03-31-1992	Cooper		1			
			5,131,632	07-21-1992	Olson					
			5,143,357	09-01-1992	Gilbert et al.					
,	/SK/		5,145,322	09-08-1992	Senior, Jr. et al.					
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/SK/			5,152,631	10-06-1992							
			5,158,440	10-27-1992	Cooper et al.						
			5,162,858	11-10-1992	Shoji et al.						
·			5,165,858	11-24-1992	Gilbert et al.						
			5,172,458	12-22-1992	Cooper						
			5,177,304	01-05-1993	Nagel						
			5,191,154	03-02-1993	Nagel	1					
/SF	Ů		5,192,193	03-09-1993	Cooper et al.						
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/SK/		5,202,100	04-13-1993	Nagel et al.	1		1		
75,14		5,203,681	04-20-1993	Cooper	1 1				
		5,209,641	05-11-1993	Hoglund et al.	1 1				
		5,215,448	06-01-1993	Cooper		1.	+		
		5,268,020	12-07-1993	Claxton			1		
		5,286,163	02-15-1994	Amra et al.	1-1	1			
		5,298,233	03-29-1994	Nagel	1 1		\top		
/SK/		5,301,620	04-12-1994	Nagel et al.			1		
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/SK/		5,308,045	05-03-1994	Cooper					
		5,310,412	05-10-1994	Gilbert et al.					
	-	5,318,360	06-07-1994	Langer et al.			1		
		5,322,547	06-21-1994	Nagel et al.					
		5,324,341	06-28-1994	Nagel et al.					
		5,330,328	07-19-1994	Cooper					
		5,354,940	10-11-1994	Nagel	1.		1		
/SK/		5,358,549	10-25-1994	Nagel et al.					
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/SK			5,358,697	10-25-1994	Nagel						
			5,364,078	11-15-1994	Pelton			-			_
			5,369,063	11-29-1994	Gee et al.						
<u> </u>			5,383,651	01-24-1995	Blasen et al.						
			5,388,633	02-14-1995	Mercer II et al.						
		<u> </u>	5,395,405	03-07-1995	Nagel et al.						
			5,399,074	03-21-1995	Nose et al.						
/SK/			5,407,294	04-18-1995	Giannini	-					
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/SK/		5,425,410	06-20-1995	Reynolds		1].		
/SK/		5,431,551	07-11-1995	Aquino et al.		T				
/SK/		5,435,982	07-25-1995	Wilkinson						
/SK/		5,436,210	07-25-1995	Wilkinson et al.						
/SK/		5,443,572	08-22-1995	Wilkinson et al.						
/SK/	•••	5,454,423	10-03-1995	Tsuchida et al.					,	
/SK/		5,468,280	11-21-1995	Areaux						
/SK/		5,470,201	11-28-1995	Gilbert et al.	1 1		-			
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/SK/		5,484,265	01-16-1996	Horvath et al.	 	1			!	
		5,489,734	02-06-1996	Nagel et al.	 	1				
	-	5,491,279	02-13-1996	Robert et al.						
		5,495,746	03-05-1996	Sigworth	1		,			
		5,505,143	04-09-1996	Nagel						
	- 	5,509,791	04-23-1996	Turner .					-	
		5,537,940	07-23-1996	Nagel et al.						
/SK/		5,543,558	08-06-1996	Nagel et al.						
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/SI	K/		5,555,822	09-17-1996	Loewen et al.					•	
			5,558,501	09-24-1996	Wang et al.						
			5,558,505	08-24-1996	Mordue et al.						
	П		5,571,486	11-05-1996	Robert et al.			:			
			5,585,532	12-17-1996	Nagel						
		· <u> </u>	5,586,863	12-24-1996	Gilbert et al.						
			5,597,289	01-28-1997	Thut					-	
/SK	<i>;</i>		5,613,245	03-18-1997	Robert						
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^{*}EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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/SK/	<u> </u>	5,662,725	09-02-1997	<u> </u>						
		5,655,849	08-12-1997	<u> </u>						
		5,640,709	06-17-1997							
		5,640,707	06-17-1997	Nagel et al.						
		5,640,706	06-17-1997	Nagel et al.						
		5,634,770	06-03-1997	Gilbert et al.						
		5,629,464	05-13-1997	Bach et al.		\vdash		\vdash		
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/SK/		5,676,520	10-14-1997					
	,	5,678,244	10-14-1997					
		5,678,807	10-21-1997	<u> </u>				
		5,679,132	10-21-1997	<u> </u>				
		5,685,701	11-11-1997	Chandler et al.		<u> </u> . ·		
		5,690,888	11-25-1997	Robert				
		5,695,732	09-09-1997	Sparks et al.				
/SK/		5,716,195	02-10-1998	Thut				
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/SK/		5,717,149	02-10-1998	Nagel et al.				T		
		5,718,416	02-17-1998	Flisakowski et al.						
		5,735,668	04-07-1998	Klien						
		5,735,935	04-07-1998	Areaux						
		5,741,422	04-21-1998	Eichenmiller et al.						
		5,744,117	04-28-1998	Wilkinson et al.						
		5,745,861	04-28-1998	Bell et al.						
/SK	y	5,755,847	05-26-1998	Quayle					-	
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			5,776,420	07-07-1998	Nagel			·			
			5,785,494	07-28-1998	Vild et al.						
			5,805,067	09-08-1989	Bradley et al.						
	\dagger		5,810,311	09-22-1998	Davison et al.						
			5,842,832	12-01-1998	Thut						
			585,188	06-29-1897	Davis						
/S	sk/		5,858,059	01-12-1999	Abramovich et al.						
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/SK/			5,864,316	01-26-1999	Bradley et al.	<u> </u>	T				
			5,866,095	02-02-1999	McGeever et al.		1			-	
			5,875,385	02-23-1999	Stephenson et al.						
			5,935,528	08-10-1999	Stephenson et al.						
			5,944,496	08-31-1999	Cooper						
			5,947,705	09-07-1999	Mordue et al.						
			5,949,369	09-07-1999	Bradley et al.						
/Sk	v		5,951,243	09-14-1999	Cooper						
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/SK/	KEI	5,993,726	11-30-1999		CEASE	+-	1	74.TRO	
T	_	5,993,728	11-30-1999		+	+	+		
		5,995,041	11-30-1999		+ +	-	+		
		6,024,286	02-15-2000		+ +		+		
		6,027,685	02-22-2000	Cooper		1.	 		
		6,036,745	03-14-2000	Gilbert et al.	1				
		6,074,455	06-13-2000	van Linden et al.	+-+				
/SK/		6,093,000	07-25-2000	Cooper					-
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/SK/		6,096,109	08-01-2000	Nagel et al.						
		6,019,576	02-01-2000	Thut						
		6,113,154	09-05-2000	Thut						
		6,123,523	09-26-2000	Cooper						
		6,152,691	11-28-2000	Thut						
		6,187,096	02-13-2001	Thut						
	:	6,217,823	04-17-2001	Vild et al.						
/SK/		6,231,639	05-15-2001	Eichenmiller et al.						
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/SK/		6,243,366	06-05-2001	Bradley et al.						
		6,250,881	06-26-2001	Mordue et al.						
		6,254,340	07-03-2001	Vild et al.			•			
		6,270,717	08-07-2001	Tremblay et al.						
		6,280,157	08-28-2001	Cooper						
		6,298,759	09-25-2001	Thut						
		6,303,074	10-16-2001	Cooper						
/SK/		6,345,964	02-12-2002	Cooper						
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/S			6,358,467	03-19-2002		-	1		1		
10	~		6,398,525	06-04-2002	Cooper		+		+		<u></u>
			6,439,860	08-27-2002	Greer	 	+		+		<u>-</u>
		•	6,451,247	09-17-2002	Mordue et al.		1		 		
			6,457,950	10-01-2002	Cooper et al.				${\dagger}$		
			6,464,458	10-15-2002	Vild et al.						
			6,495,948	12-17-2002	Garrett, III						
/SK	y J		6,497,559	12-24-2002	Grant						
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		6,533,535	03-18-2003	Thut			•					
		6,551,060	04-22-2003	Mordue et al.					- /			
		6,648,026	11-18-2003	Look et al.								
		6,679,936	01-20-2004	Quackenbush								
	_	6,689,310	02-10-2004	Cooper								
	,	6,695,510	02-24-2004	Look et al.								
/SK/		6,709,234	03-23-2004	Gilbert et al.								
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/SK/		·	6,716,147	04-06-2004	Hinkle et al.							
			6,723,276	04-20-2004	4 Cooper							
			6,805,834	10-19-2004	4 Thut							
			6,843,640	01-18-200	Mordue et al.							
			6,848,497	02-01-200	Sale et al.							
			6,869,271	05-24-200	Uchida et al.							
			6,869,564	03-22-200	5 Gilbert et al.							
/SK/			6,881,030	04-19-200:	5 Thut							
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			898,499	09-15-1908	O'Donnell			T								
			20010000465	04-26-2001	Thut					·						
			20010012758	08-09-2001	Bradley et al.											
	1 1		20020041788	04-11-2002	Look et al.											
	1		20020102159	08-01-2002	Thut											
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	 		20040022632	02-05-2004		+-+						
			20040007284	01-15-2004								
			20030185679	10-02-2003	Mordue et al.							
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1		20040084172	05-06-2004	Vincent et al.								
		20040115079	06-17-2004	Cooper								
		20040199435	10-07-2004	Abrams et al.								
	:	20040123970	07-01-2004	Neff								
		20040215204	10-28-2004	Davison et al.								
		20040262825	12-30-2004	Cooper								
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20050077730 04-14-2005 Thut											
20050081607 04-21-2005 Patel et al.											
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